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Hanwha Techwin XNF-8010RV

Hanwha Techwin XNF-8010RV 6MP Network Outdoor Fisheye Camera User Manual

Model: XNF-8010RV

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of the Hanwha Techwin XNF-8010RV 6MP Network Outdoor Fisheye Camera. This device is designed for outdoor surveillance applications, offering a wide field of view and robust performance in various environmental conditions. Please read this manual thoroughly before using the product to ensure proper and safe operation.

2. PRODUCT FEATURES

The Hanwha Techwin XNF-8010RV camera incorporates advanced technology for reliable surveillance. Key features include:

- **6 MP Resolution:** Captures high-definition video for clear image detail.
- **Fisheye Lens:** Equipped with a 1.6mm lens providing a 192°x192° field of view with simple focus capabilities.
- **Triple Codec Support:** Supports H.265, H.264, and MJPEG multiple streaming for efficient video compression.
- **WiseStream II Compression Technology:** Enhances bandwidth efficiency and reduces storage requirements.
- **WDR 120dB @30fps:** Wide Dynamic Range for clear images in challenging lighting conditions.
- **Advanced Analytics:** Includes Sound Classification, Heatmap, People Counting, and Queue Line Management.
- **Power Options:** Can be powered via Power over Ethernet (PoE) or 12VDC.
- **Weatherproof and Vandal-Resistant:** IP66 rated for outdoor use and IK10 rated for impact resistance.
- **USB Port:** For easy installation and maintenance.
- **Dual SD Card Slots:** For on-board storage and redundancy.

3. PACKAGE CONTENTS

Verify that all components are present in the package before proceeding with installation:

- Hanwha Techwin XNF-8010RV Camera Unit
- Quick Start Guide
- Mounting Screws and Anchors
- Mounting Template

4. SAFETY INFORMATION

Observe the following safety precautions to prevent injury or damage to the product:

- **Power Supply:** Use only the specified power supply (PoE or 12VDC). Incorrect voltage may damage the camera.
- **Installation:** Installation should be performed by qualified personnel in accordance with all local electrical codes. Ensure the mounting surface can support the camera's weight.
- **Water and Moisture:** Although the camera is IP66 rated, avoid submerging it in water or exposing it to high-pressure water jets. Ensure all cable connections are properly sealed to maintain weather resistance.
- **Temperature:** Do not operate the camera outside its specified temperature range.
- **Cleaning:** Disconnect power before cleaning. Use a soft, dry cloth. Avoid harsh chemicals.
- **Disassembly:** Do not attempt to disassemble or modify the camera. This will void the warranty and may cause damage or injury.

5. SETUP

5.1 Physical Installation

The XNF-8010RV is designed for outdoor mounting. Select a location that provides the desired field of view and is within reach of network and power connections. Use the provided mounting template to mark drilling points. Secure the camera firmly to the mounting surface using appropriate screws and anchors.

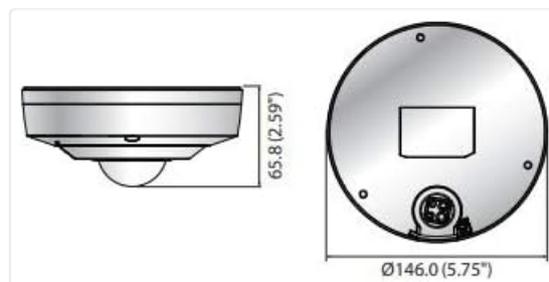


Figure 1: Dimensional drawing of the XNF-8010RV camera. The diagram shows the camera's side profile with a height of 65.8mm (2.59 inches) and a top-down view indicating a diameter of 146.0mm (5.75 inches). This helps in planning the physical installation space.

5.2 Connections

The camera primarily uses an RJ45 connection for network and Power over Ethernet (PoE). Connect a standard Ethernet cable from your PoE-enabled network switch or PoE injector to the camera's RJ45 port. If not using PoE, connect a 12VDC power adapter (sold separately) to the camera's power input and an Ethernet

cable to a standard network switch.



Figure 2: A standard blue Ethernet cable with RJ45 connectors. This type of cable is used to connect the XNF-8010RV camera to a network and provide Power over Ethernet (PoE) if supported by the network infrastructure.

5.3 Network Configuration

After physical installation and connection, the camera will obtain an IP address from your network's DHCP server. Use the Hanwha Techwin Device Manager software (available on the official Hanwha Techwin website) to discover the camera on your network, change its default password, and configure network settings such as static IP address, if required. Access the camera's web interface by entering its IP address into a web browser for further configuration.

6. OPERATING INSTRUCTIONS

6.1 Basic Operation

Once configured, the camera streams video over the network. You can view live footage, record video, and manage settings through the camera's web interface or a compatible Network Video Recorder (NVR) / Video Management System (VMS). Refer to the software documentation for detailed instructions on using these platforms.

6.2 Advanced Features

The XNF-8010RV supports various advanced features:

- **WiseStream II:** Configure video compression settings to optimize bandwidth and storage.
- **WDR (Wide Dynamic Range):** Adjust WDR settings to improve image clarity in scenes with high contrast.
- **Video Analytics:** Enable and configure built-in analytics such as Sound Classification, Heatmap, People Counting, and Queue Line Management via the camera's web interface.
- **SD Card Recording:** Set up recording schedules and event-triggered recording to the dual SD card slots for local storage.

7. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your camera:

- **Lens Cleaning:** Gently clean the camera lens with a soft, lint-free cloth. For stubborn dirt, use a lens cleaning solution designed for optical surfaces. Avoid abrasive materials.
- **Housing Cleaning:** Wipe the camera housing with a damp cloth. Do not use strong detergents or solvents.
- **Firmware Updates:** Periodically check the Hanwha Techwin website for firmware updates. Keeping the firmware updated ensures access to the latest features, security patches, and performance

improvements. Follow the provided instructions carefully when performing updates.

- **Cable Inspection:** Regularly inspect all cables and connections for signs of wear, damage, or corrosion, especially in outdoor environments. Ensure all seals are intact.

8. TROUBLESHOOTING

If you encounter issues with your XNF-8010RV camera, refer to the following common troubleshooting steps:

- **No Power:**

- Verify the power source (PoE switch or 12VDC adapter) is functioning correctly.
- Check all power connections for secure fit.

- **No Network Connection:**

- Ensure the Ethernet cable is securely connected at both ends.
- Check the network switch or router for proper operation.
- Confirm the camera's IP address is correct and not conflicting with other devices on the network.
- Use the Hanwha Techwin Device Manager to detect the camera.

- **Poor Image Quality:**

- Clean the camera lens.
- Adjust WDR settings in the camera's web interface for challenging lighting.
- Check network bandwidth; insufficient bandwidth can cause choppy or low-quality video.
- Ensure the camera's resolution and frame rate settings are appropriate for your viewing device and network.

- **Cannot Access Web Interface:**

- Verify the camera's IP address.
- Ensure your computer is on the same network segment as the camera.
- Try a different web browser.
- Reset the camera to factory defaults (refer to the full product manual for instructions on performing a factory reset).

9. SPECIFICATIONS

Detailed technical specifications for the Hanwha Techwin XNF-8010RV camera:

Feature	Specification
Model Number	XNF-8010RV
Effective Still Resolution	6 MP
Video Capture Resolution	6mp
Lens	1.6mm Fixed Fisheye (192°x192°)
Frame Rate	30 fps
Video Compression	H.265, H.264, MJPEG (WiseStream II)

Feature	Specification
Photo Sensor Technology	CMOS
Low Light Technology	Day/Night
Connectivity Technology	Wired (RJ45), Wireless (Wi-Fi - for certain functions/models)
Connectivity Protocol	Wi-Fi (Note: Primary connection is RJ45)
Power Source	PoE (Power over Ethernet) or 12VDC
International Protection Rating	IP66 (Weatherproof)
Impact Protection Rating	IK10 (Vandal-resistant)
Indoor/Outdoor Usage	Outdoor
Product Dimensions (L x W x H)	5.75 x 5.75 x 2.59 inches (146.0 x 146.0 x 65.8 mm)
Item Weight	1.73 pounds
Manufacturer	Hanwha Techwin
UPC	764227525653

10. WARRANTY AND SUPPORT

The Hanwha Techwin XNF-8010RV camera is covered by a manufacturer's warranty. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official Hanwha Techwin website. For technical support, product registration, or to download the latest software and documentation, please visit the Hanwha Techwin support portal or contact their customer service department.

Online Support: www.hanwhasecurity.com/support/